



Rachael Whitehead

Scientific Visualization,
Illustration & Design

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EDUCATION

- 2017-2019 **MSC IN BIOMEDICAL COMMUNICATIONS**
University of Toronto, Toronto, ON
- 2011-2016 **BS IN GENERAL BIOLOGY & BA IN PAINTING & DRAWING**
University of Washington, Seattle, WA

TECHNICAL SKILLS & EXPERIENCES

SOFTWARE: Adobe Suite (Photoshop, Illustrator, After Effects), Pixelogic Z-Brush, Autodesk Maya, Maxon Cinema 4D, UCSF Chimera, Tableau, Horos

SKILLS: 3D modelling, 3D animation, 2D animation, graphic design, data visualization, visual storytelling, literature review

SUBJECTS: Medical legal, surgical, anatomical, cellular, molecular, natural history, public health

TRADITIONAL: Graphite, pen and ink, coloured pencils, carbon dust, watercolour

RESEARCH

MASTER'S RESEARCH PROJECT - 2019

Created a 5 minute educational 3D animation for Dr. David Evans at the Royal Ontario Museum of Natural History, Toronto, to inform the general public about an ankylosaur dinosaur, *Zuul crurivastator*, and its exceptional preservation and fossilization.

WORK EXPERIENCE

- 2018 **MEDICAL ILLUSTRATION SUMMER INTERN**
BC Children's Hospital Research Institute, Vancouver, BC
Created illustrations, graphics, and logos. Brainstormed to find solutions for visual problems for researchers and the administration department
- FREELANCE SCIENTIFIC COMMUNICATOR**
- 2019 Illustrations for the 2020 ed. of Toronto Notes (medical study guide textbook), Toronto
- 2019 2D animation for Dr. Mulpuri, BC Children's Hospital Research Institute, Vancouver
- 2015, 2017 Illustrations for Paleontology Department, Burke Museum of Natural History, Seattle
- 2013-2015 Illustrations for Herbarium Department, Burke Museum of Natural History, Seattle
- FREELANCE ILLUSTRATOR**
- 2016-2017 Illustrations for a sports themed colouring book, Colour Me Fundraising, Victoria, BC
- 2017 Illustrations for a children's fantasy story book, Kelowna, BC
- 2015 Illustrations for botanical themed postcards, Bellevue Botanical Gardens, Seattle
- 2011, 2017 **SUMMER LAB TECHNICIAN**
CF Mineral Research Ltd., Kelowna, BC
Separated mineral samples using a microscope and magnetic techniques
- 2017 Jan-Aug **ACTIVITIES COORDINATOR**
Gallagher's Canyon Property Owners Association, Kelowna, BC
Facilitated residents' participation in social activities in this golf community and handled their files

SELECT ILLUSTRATION PUBLICATIONS

- 2018 **FLORA OF THE PACIFIC NORTHWEST TEXTBOOK, 2ND. EDITION**
Botanical illustrations commissioned by the Burke Museum Herbarium, Seattle
- 2017 **JOURNAL OF VERTEBRATE PALEONTOLOGY**
Paleontological illustrations commissioned by Dr. C. Sidor, Burke Museum, Seattle
- 2015 **GREY MATTERS - UNIVERSITY OF WASHINGTON NEUROSCIENCE JOURNAL**
Editorial artwork for "Tumour Paint" article, Winter 2015
- 2014 **GREY MATTERS - UNIVERSITY OF WASHINGTON NEUROSCIENCE JOURNAL**
Editorial artwork for "Processing Perception" article, Winter 2014

VOLUNTEER

- 2016 Spr, Aut **SCHOOL FIELD TRIP NATURALIST**
UW Arboretum & Botanic Gardens, Seattle, WA
Led nature walks and instructed school children about plant biology
- 2016 Jan-Jun **MUSEUM ORNITHOLOGY SPECIMEN PREPARER**
Ornithology Department, Burke Museum of Natural History, Seattle, WA
Dissected, skinned and prepared bird specimens to create study skins for the ornithological collections